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DATE: Thursday, June 12, 2003

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side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L5	subtilis with hish	9	L5
L4	aquifex with (transaminase or aminotransferase)	8	L4
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L3	5939250.pn.	1	L3
L2	5939250	72	L2
L1	6268188	1	L1

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 8 of 8 returned.****1. Document ID: US 20030040092 A1**

L4: Entry 1 of 8

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040092

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040092 A1

TITLE: Transaminases and aminotransferases

PUBLICATION-DATE: February 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Warren, Patrick V.	San Diego	CA	US	
Swanson, Ronald V.	Del Mar	CA	US	

US-CL-CURRENT: 435/193; 435/320.1, 435/325, 435/69.1, 536/23.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)**2. Document ID: US 20020132295 A1**

L4: Entry 2 of 8

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020132295

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020132295 A1

TITLE: Enzymes having transaminase and aminotransferase activity and methods of use thereof

PUBLICATION-DATE: September 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Short, Jay M.	Rancho Santa Fe	CA	US	
Warren, Patrick V.	Philadelphia	PA	US	
Swanson, Ronald V.	Media	PA	US	
Mathur, Eric J.	Carlsbad	CA	US	

US-CL-CURRENT: 435/69.1; 435/128, 435/193, 435/320.1, 435/325, 536/23.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)**3. Document ID: US 6268188 B1**

L4: Entry 3 of 8

File: USPT

Jul 31, 2001

US-PAT-NO: 6268188  
DOCUMENT-IDENTIFIER: US 6268188 B1

TITLE: Transaminases and aminotransferases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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4. Document ID: US 6013509 A

L4: Entry 4 of 8                          File: USPT                          Jan 11, 2000

US-PAT-NO: 6013509  
DOCUMENT-IDENTIFIER: US 6013509 A

TITLE: Transaminases and aminotransferases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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5. Document ID: US 5962283 A

L4: Entry 5 of 8                          File: USPT                          Oct 5, 1999

US-PAT-NO: 5962283  
DOCUMENT-IDENTIFIER: US 5962283 A

TITLE: Transminases and ammonotransferases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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6. Document ID: US 5814473 A

L4: Entry 6 of 8                          File: USPT                          Sep 29, 1998

US-PAT-NO: 5814473  
DOCUMENT-IDENTIFIER: US 5814473 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Transaminases and aminotransferases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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7. Document ID: JP 2003000289 A

L4: Entry 7 of 8                          File: JPAB                          Jan 7, 2003

PUB-NO: JP02003000289A  
DOCUMENT-IDENTIFIER: JP 2003000289 A  
TITLE: TRANSAMINASE AND AMINOTRANSFERASE

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

8. Document ID: JP 2003000288 A

L4: Entry 8 of 8

File: JPAB

Jan 7, 2003

PUB-NO: JP02003000288A

DOCUMENT-IDENTIFIER: JP 2003000288 A

TITLE: TRANSAMINASE AND AMINOTRANSFERASE

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KNC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
aquifex with (transaminase or aminotransferase)	8

Display Format:  [Previous Page](#)      [Next Page](#)

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NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
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NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 20 EVENTLINE will be removed from STN  
NEWS 28 Mar 24 PATDPAFULL now available on STN  
NEWS 29 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 30 Apr 11 Display formats in DGENE enhanced  
NEWS 31 Apr 14 MEDLINE Reload  
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced  
NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS  
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in  
WPIDS/WPINDEX/WPIX  
NEWS 35 Apr 28 RDISCLOSURE now available on STN  
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names  
added to PHAR  
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded  
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated  
NEWS 39 May 16 CHEMREACT will be removed from STN  
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and  
right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data

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=> s aquifex (5a) (transaminase or aminotransferase)  
L1 6 AQUIFEX (5A) (TRANSAMINASE OR AMINOTRANSFERASE)

=> dup rem l1  
PROCESSING COMPLETED FOR L1  
L2 4 DUP REM L1 (2 DUPLICATES REMOVED)

=> d 1-4

L2 ANSWER 1 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI  
 AN 2003-08950 BIOTECHDS  
 TI Novel purified aminotransferase or transaminase polypeptides, useful for catalyzing transfer of amino groups from alpha-amino to alpha-keto acids, and for modifying small molecules; recombinant enzyme protein production and vector expression in host cell for small molecule modification  
 AU SHORT J M; WARREN P V; SWANSON R V; MATHUR E J  
 PA SHORT J M; WARREN P V; SWANSON R V; MATHUR E J  
 PI US 2002132295 19 Sep 2002  
 AI US 2001-905173 12 Jul 2001  
 PRAI US 2001-905173 12 Jul 2001; US 1996-599171 9 Feb 1996  
 DT Patent  
 LA English  
 OS WPI: 2003-182286 [18]

L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2000:313825 BIOSIS  
 DN PREV200000313825  
 TI Transaminases and aminotransferases.  
 AU Warren, Patrick V. (1); Swanson, Ronald V.  
 CS (1) Philadelphia, PA USA  
 ASSIGNEE: Diversa Corporation  
 PI US 6013509 January 11, 2000  
 SO Official Gazette of the United States Patent and Trademark Office Patents, (Jan. 11, 2000) Vol. 1230, No. 2, pp. No pagination. e-file.  
 ISSN: 0098-1133.  
 DT Patent  
 LA English

L2 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS  
 AN 1999:635429 HCAPLUS  
 DN 131:271015  
 TI Transminases and aminotransferases  
 IN Warren, Patrick V.; Swanson, Ronald V.  
 PA Diversa Corporation, USA  
 SO U.S., 39 pp., Cont.-in-part of U.S. 5,814,473.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 5962283	A	19991005	US 1996-646590	19960508	
	US 5814473	A	19980929	US 1996-599171	19960209	
	CA 2246243	AA	19970814	CA 1997-2246243	19970121	
	WO 9729187	A1	19970814	WO 1997-US1094	19970121	
	W: AU, CA, IL, JP, US					
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
	AU 9718367	A1	19970828	AU 1997-18367	19970121	
	AU 718147	B2	20000406			
	JP 2000505291	T2	20000509	JP 1997-528527	19970121	
	JP 3414405	B2	20030609			
EP 1015563	A1	20000705	EP 1997-903936	19970121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI						
JP 2003000288	A2	20030107	JP 2002-137783	19970121		
JP 2003000289	A2	20030107	JP 2002-137827	19970121		
US 6268188	B1	20010731	US 1999-412184	19991004		
US 2002132295	A1	20020919	US 2001-905173	20010712		
PRAI	US 1996-599171	A2	19960209			
	US 1996-646590	A	19960508			
	JP 1997-528527	A3	19970121			
	WO 1997-US1094	W	19970121			
	US 1998-69226	A1	19980427			
	US 1999-389537	A2	19990902			
	US 1999-412184	A2	19991004			
US 2000-481733	A2	20000111				

L2 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI  
AN 1997-11474 BIOTECHDS  
TI Novel transaminases and aminotransferases;  
recombinant thermostable enzyme production  
AU Warren P V; Swanson R V  
PA Recombinant-Biocatalysis  
LO La Jolla, CA, USA.  
PI WO 9729187 14 Aug 1997  
AI WO 1997-US1094 21 Jan 1997  
PRAI US 1996-646590 8 May 1996; US 1996-599171 9 Feb 1996  
DT Patent  
LA English  
OS WPI: 1997-415343 [38]

=> s subtilis (5a)hish  
L3 47 SUBTILIS (5A) HISH

=> dup rem 13  
PROCESSING COMPLETED FOR L3  
L4 16 DUP REM L3 (31 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 16 MEDLINE DUPLICATE 1  
AN 2002465489 MEDLINE  
DN 22212113 PubMed ID: 12224638  
TI Significance of the 20-kDa subunit of heterodimeric 2-deoxy-scyllo-inosose synthase for the biosynthesis of butirosin antibiotics in *Bacillus circulans*.  
AU Tamegai Hideyuki; Nango Eriko; Koike-Takeshita Ayumi; Kudo Fumitaka; Kakinuma Katsumi  
CS Department of Chemistry, Tokyo Institute of Technology, Japan.  
SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2002 Jul) 66 (7) 1538-45.  
Journal code: 9205717. ISSN: 0916-8451.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200303  
ED Entered STN: 20020913  
Last Updated on STN: 20030331  
Entered Medline: 20030328

L4 ANSWER 2 OF 16 MEDLINE DUPLICATE 2  
AN 2001315503 MEDLINE  
DN 21281639 PubMed ID: 11388459  
TI Incorporation of the whole chromosomal DNA in protoplast lysates into competent cells of *Bacillus subtilis*.  
AU Akamatsu T; Taguchi H  
CS Department of Applied Microbial Technology, Sojo University, Kumamoto, Japan.. akamatsu@bio.sj-u.ac.jp  
SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2001 Apr) 65 (4) 823-9.  
Journal code: 9205717. ISSN: 0916-8451.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200110  
ED Entered STN: 20011029  
Last Updated on STN: 20011029  
Entered Medline: 20011025

L4 ANSWER 3 OF 16 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI  
AN 2001-05296 BIOTECHDS  
TI A simple and rapid method for intra- and interspecific transformation of *Bacillus subtilis* on solid media by DNA in protoplast lysates; transformation in solid medium or microtiter plate using chromosomal

AU DNA in a *B. subtilis* protoplast lyzate  
AU Akamatsu T; Taguchi H  
CS Univ. Sojo  
LO Department of Applied Microbial Technology, Sojo University, Ikeda  
4-22-1, Kumamoto 860-0082, Japan.  
Email: akamatsu@bio.sojou.ac.jp  
SO Biosci.Biotechnol.Biochem.; (2001) 65, 2, 446-48  
CODEN: BBBIEJ ISSN: 0916-8451  
DT Journal  
LA English

L4 ANSWER 4 OF 16 HCPLUS COPYRIGHT 2003 ACS

AN 1998:558042 HCPLUS

DN 129:255828

TI The gerC locus of *Bacillus subtilis*, required for menaquinone biosynthesis, is concerned only indirectly with spore germination  
AU Leatherbarrow, A. J. Howard; Yazdi, Mohammed A.; Curson, Janet P.; Moir, Anne  
CS Krebs Institute for Biomolecular Research, Dept of Molecular Biology and Biotechnology, University of Sheffield, Sheffield, S10 2TN, UK  
SO Microbiology (Reading, United Kingdom) (1998), 144(8), 2125-2130  
CODEN: MROBEO; ISSN: 1350-0872  
PB Society for General Microbiology  
DT Journal  
LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 16 MEDLINE

DUPPLICATE 3

AN 93185620 MEDLINE

DN 93185620 PubMed ID: 7916685

TI An allosterically insensitive class of cyclohexadienyl dehydrogenase from *Zymomonas mobilis*.

AU Zhao G; Xia T; Ingram L O; Jensen R A

CS Department of Microbiology and Cell Science, University of Florida, Gainesville 32611-0100.

NC DK38309 (NIDDK)

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1993 Feb 15) 212 (1) 157-65.  
Journal code: 0107600. ISSN: 0014-2956.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-L09679; GENBANK-L09680; GENBANK-L09681; GENBANK-L09682;  
GENBANK-L09683; GENBANK-M75891; GENBANK-X14400; GENBANK-X53688;  
GENBANK-X57950; GENBANK-X67208

EM 199304

ED Entered STN: 19930416

Last Updated on STN: 19950206

Entered Medline: 19930402

L4 ANSWER 6 OF 16 MEDLINE

DUPPLICATE 4

AN 93015709 MEDLINE

DN 93015709 PubMed ID: 1400209

TI Histidine biosynthesis genes in *Lactococcus lactis* subsp. *lactis*.

AU Delorme C; Ehrlich S D; Renault P

CS Laboratoire de Genetique Microbienne, Institut National de la Recherche Agronomique, Jouy-en-Josas, France.

SO JOURNAL OF BACTERIOLOGY, (1992 Oct) 174 (20) 6571-9.  
Journal code: 2985120R. ISSN: 0021-9193.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-M90760; GENBANK-M94060; GENBANK-M94061; GENBANK-M94062;  
GENBANK-M94629; GENBANK-M94692; GENBANK-X64378; GENBANK-X64379;  
GENBANK-X64380; GENBANK-X64381

EM 199211

ED Entered STN: 19930122

Last Updated on STN: 199701  
Entered Medline: 19921113

L4 ANSWER 7 OF 16 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI  
AN 1992-04253 BIOTECHDS  
TI Successive protoplast transformation of *Bacillus subtilis* by plasmid DNA  
under low concentration of lysozyme;  
    protoplast transformation system optimization using vector plasmid  
    pUB110  
AU Hara T; Lee J T; Prana T K; Akamatsu T; Fujio Y; Ogata S  
LO Microbial Genetic Division, Institute of Genetic Resources, Faculty of  
Agriculture, Kyushu University, Hakozaki, Higashi-ku, Fukuoka 812, Japan.  
SO J.Fac.Agric.Kyushu Univ.; (1991) 36, 1-2, 23-28  
CODEN: JFAKAU  
DT Journal  
LA English

L4 ANSWER 8 OF 16 MEDLINE DUPLICATE 5  
AN 90130317 MEDLINE  
DN 90130317 PubMed ID: 2298700  
TI Genetic map of the *Bacillus stearothermophilus* NUB36 chromosome.  
AU Vallier H; Welker N E  
CS Department of Biochemistry, Molecular Biology, and Cell Biology,  
Northwestern University, Evanston, Illinois 60208.  
SO JOURNAL OF BACTERIOLOGY, (1990 Feb) 172 (2) 793-801.  
Journal code: 2985120R. ISSN: 0021-9193.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199003  
ED Entered STN: 19900328  
Last Updated on STN: 19900328  
Entered Medline: 19900314

L4 ANSWER 9 OF 16 MEDLINE DUPLICATE 6  
AN 87191994 MEDLINE  
DN 87191994 PubMed ID: 3106153  
TI The organization and nucleotide sequence of the *Bacillus subtilis* *hisH*, *tyrA* and *aroE* genes.  
AU Henner D J; Band L; Flagg G; Chen E  
SO GENE, (1986) 49 (1) 147-52.  
Journal code: 7706761. ISSN: 0378-1119.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-M15409  
EM 198705  
ED Entered STN: 19900303  
Last Updated on STN: 19900303  
Entered Medline: 19870527

L4 ANSWER 10 OF 16 HCPLUS COPYRIGHT 2003 ACS  
AN 1985:482515 HCPLUS  
DN 103:82515  
TI Nucleotide sequence of the *Bacillus subtilis* tryptophan operon  
AU Henner, Dennis J.; Band, Louise; Shimotsu, Hidenori  
CS Dep. Mol. Biol., Genentech, Inc., South San Francisco, CA, 94080, USA  
SO Gene (1985), 34(2-3), 169-77  
CODEN: GENED6; ISSN: 0378-1119  
DT Journal  
LA English

=> d 11-16

L4 ANSWER 11 OF 16 MEDLINE DUPLICATE 7  
AN 85035858 MEDLINE

DN 85035858 PubMed ID: 6092  
TI Direct plasmid transfer from replica-plated E. coli colonies to competent B. subtilis cells. Identification of an E. coli clone carrying the hisH and tyrA genes of B. subtilis.  
AU van Randen J; Venema G  
SO MOLECULAR AND GENERAL GENETICS, (1984) 195 (1-2) 57-61.  
CY Journal code: 0125036. ISSN: 0026-8925.  
DT GERMANY, WEST: Germany, Federal Republic of  
LA Journal; Article; (JOURNAL ARTICLE)  
FS English  
EM Priority Journals  
ED 198411  
Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19841126

L4 ANSWER 12 OF 16 LIFESCI COPYRIGHT 2003 CSA DUPLICATE 8  
AN 84:14204 LIFESCI  
TI Direct plasmid transfer from replica-plated E. coli colonies to competent B. subtilis cells: Identification of an E. coli clone carrying the hisH and tyra genes of B. subtilis .  
AU van Randen, J.; Venema, G.  
CS Dep. Genet., Biol. Cent., Kerklaan 30, 9751 NN Haren, Netherlands  
SO MOL. GEN. GENET., (1984) vol. 195, no. 1-2, pp. 57-61.  
DT Journal  
FS W; N; G; J  
LA English  
SL English

L4 ANSWER 13 OF 16 SCISEARCH COPYRIGHT 2003 THOMSON ISI  
AN 84:341831 SCISEARCH  
GA The Genuine Article (R) Number: SX288  
TI DIRECT PLASMID TRANSFER FROM REPLICATED ESCHERICHIA-COLI COLONIES TO COMPETENT B-SUBTILIS CELLS - IDENTIFICATION OF AN ESCHERICHIA-COLI CARRYING THE HIS H AND TYRA GENES OF B-SUBTILIS  
AU VANRANDEN J (Reprint); VENEMA G  
CS BIOL CTR, DEPT GENET, KERKLAAN 30, 9751 NN HAREN, NETHERLANDS (Reprint)  
CYA NETHERLANDS  
SO MOLECULAR & GENERAL GENETICS, (1984) Vol. 195, No. 1-2, pp. 57-61.  
DT Article; Journal  
FS LIFE  
LA ENGLISH  
REC Reference Count: 21

L4 ANSWER 14 OF 16 HCPLUS COPYRIGHT 2003 ACS  
AN 1983:433864 HCPLUS  
DN 99:33864  
TI Plasmid marker rescue transformation in Bacillus subtilis  
AU Weinrauch, Y.; Dubnau, D.  
CS Public Health Res. Inst., City of New York, Inc., New York, NY, 10016, USA  
SO Journal of Bacteriology (1983), 154(3), 1077-87  
CODEN: JOBAAY; ISSN: 0021-9193  
DT Journal  
LA English

L4 ANSWER 15 OF 16 MEDLINE DUPLICATE 9  
AN 81165551 MEDLINE  
DN 81165551 PubMed ID: 6260584  
TI DNA cloning in Bacillus subtilis. III. Efficiency of random-segment cloning and insertional inactivation vectors.  
AU Michel B; Palla E; Niaudet B; Ehrlich S D  
SO GENE, (1980 Dec) 12 (1-2) 147-54.  
Journal code: 7706761. ISSN: 0378-1119.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198106  
ED Entered STN: 19900316

Last Updated on STN: 19900  
Entered Medline: 19810625

L4 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2003 ACS  
AN 1977:40016 HCAPLUS  
DN 86:40016  
TI Involvement of a histidine locus in tyrosine and phenylalanine synthesis  
in *Bacillus subtilis*  
AU Nester, Eugene W.; Montoya, Alice  
CS Dep. Microbiol. Immunol., Univ. Washington, Seattle, WA, USA  
SO Microbiology (Washington, D. C.) (1976) 141-4  
CODEN: MICRDG; ISSN: 0098-1540  
DT Journal  
LA English

=> d 9 ab

L4 ANSWER 9 OF 16 MEDLINE DUPLICATE 6  
AB The nucleotide sequence of approximately 3 kb of *Bacillus subtilis* DNA  
distal to the trp operon was determined. Three open reading frames were  
found and these were shown to encode the hisH, tyrA and aroE genes.  
Integrative plasmids were constructed to interrupt transcription through  
this region. These data suggest that these three genes can be transcribed  
from both the trp promoter preceding the trp operon and from a promoter  
within the trpA structural gene.

=> dis his

(FILE 'HOME' ENTERED AT 17:47:29 ON 12 JUN 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 17:47:41 ON 12 JUN 2003

L1 6 S AQUIFEX (5A) (TRANSAMINASE OR AMINOTRANSFERASE)  
L2 4 DUP REM L1 (2 DUPLICATES REMOVED)  
L3 47 S SUBTILIS (5A)HISH  
L4 16 DUP REM L3 (31 DUPLICATES REMOVED)

=> log h

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FULL ESTIMATED COST	37.78	37.99

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:54:33 ON 12 JUN 2003